## CLAIMS

- 1. A protein containing the same or substantially the same amino acid sequence as the amino acid sequence represented by SEQ ID NO:1, or a salt thereof.
- 2. A partial peptide of the protein according to claim 1, or a salt thereof.
  - 3. A polynucleotide containing a polynucleotide having a base sequence encoding the protein according to claim 1.
- 4. A polynucleotide according to claim 3, which is DNA.
- 5. A polynucleotide according to claim 3, which is represented by SEQ ID NO:2.
- 6. A recombinant vector containing the polynucleotide according to claim 3.
- 7. A transformant transformed with the recombinant vector according to claim 6.
- 8. A method of manufacturing the protein or its salt according to claim 1, which comprises culturing the transformant according to claim 7 and accumulating the protein according to claim 1.
- 9. An antibody to the protein according to claim 1, the partial peptide according to claim 3, or a salt of the protein or partial peptide.
- 10. An antibody according to claim 9, which is a neutralizing antibody capable of inactivating signal transduction of the protein according to claim 1.
- 11. A diagnostic composition comprising the antibody according to claim 9.
- 12. A ligand to the protein or its salt according to claim 1, which is obtainable using the protein according to claim 1 or the partial peptide according

to claim 1, or a salt of said protein or partial peptide.

- 13. A pharmaceutical composition comprising the ligand according to claim 12.
- 14. A method of determining a ligand to the protein or its salt according to claim 1, which comprises using the protein according to claim 1 or the partial peptide according to claim 1, or a salt of said protein or partial peptide.
- 15. A method of screening a compound that alters the binding property between a ligand and the protein or its salt according to claim 1, wherein the protein according to claim 1, the partial peptide according to claim 1, or a salt of the protein or partial peptide.
- 16. A kit for screening a compound or its salt that alters the binding property between a ligand and the protein or its salt according to claim 1, comprising the protein according to claim 1 or the partial peptide according to claim 1, or a salt of said protein or partial peptide.
- 17. A compound or its salt that alters the binding property between a ligand and the protein or its salt according to claim 1, which is obtainable using the screening method according to claim 15 or the screening kit according to claim 16.
- 18. A pharmaceutical composition comprising a compound or its salt that alters the binding property between a ligand and the protein or its salt according to claim 1, which is obtainable using the screening method according to claim 15 or the screening kit according to claim 16.
- 19. A polynucleotide that hybridizes to the polynucleotide according to claim 3 under a highly stringent condition.

- 20. A polynucleotide comprising a base sequence complementary to the polynucleotide according to claim 3 or a part of the base sequence.
- 21. A method of quantifying mRNA of the protein according to claim 1, which comprises using the polynucleotide according to claim 3 or a part of the polynucleotide.
- 22. A method of quantifying the protein according to claim 1, which comprises using the antibody according to claim 9.
- 23. A diagnostic method for a disease associated with functions of the protein according to claim 1, which comprises using the quantification method according to claim 21 or claim 22.
- 24. A method of screening a compound or its salt that alters the expression level of the protein according to claim 1, which comprises using the quantification method according to claim 21.
- 25. A method of screening a compound or its salt that alters the amount of the protein according to claim 1 in cell membrane, which comprises using the quantification method according to claim 22.
- 26. A compound or its salt that alters the expression level of the protein according to claim 1, which is obtainable using the screening method according to claim 24.
- 27. A compound or its salt that alters the amount of the protein according to claim 1 in cell membrane, which is obtainable using the screening method according to claim 25.